

2.0 Amp Glass Passivated Silicon Rectifiers - 50~1000Volts

SMB Package



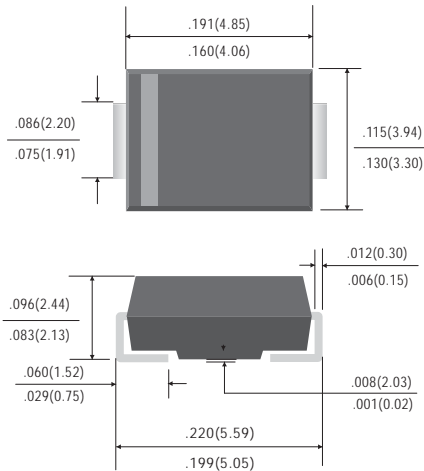
SMB(DO-214AA)

Features

- Low leakage current
- Metallurgic ally bonded construction
- Moisture Sensitivity Level 1
- RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"

Mechanical Date

- Case: Molded Plastic, SMB(DO214AA)
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.095 gram (Approximate)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

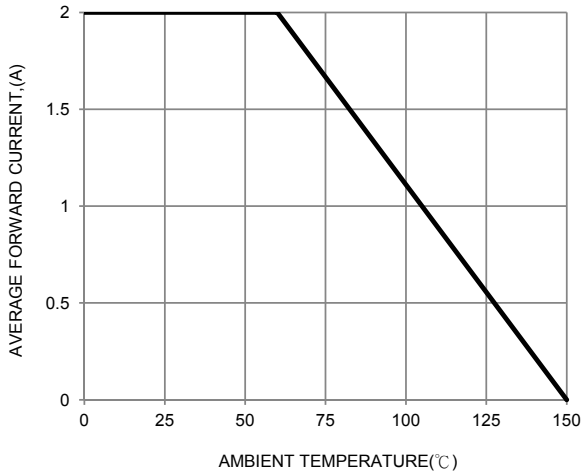
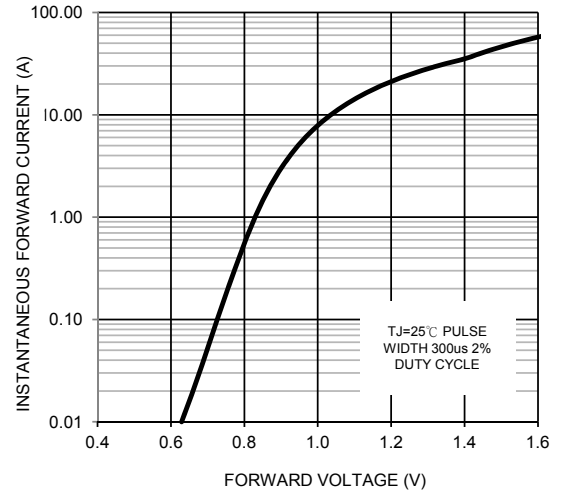
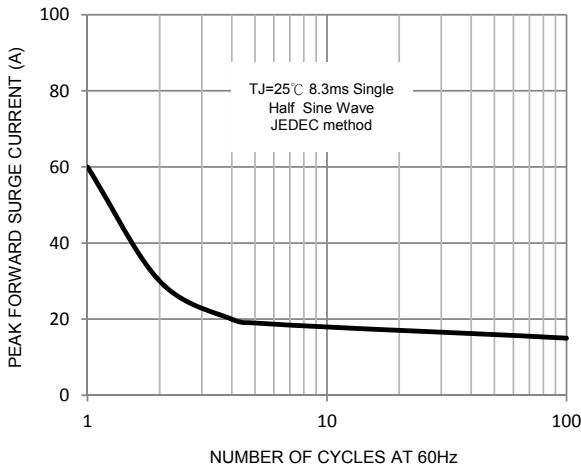
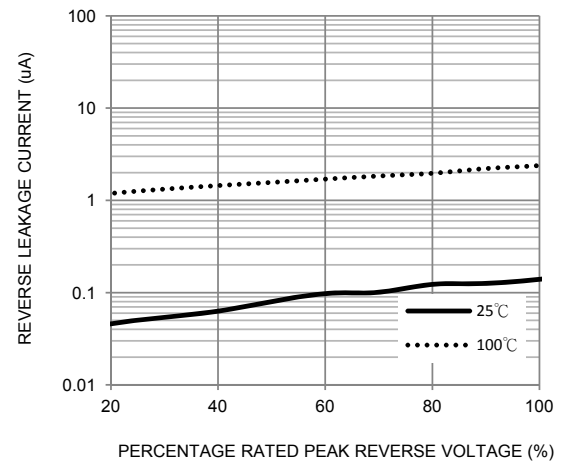
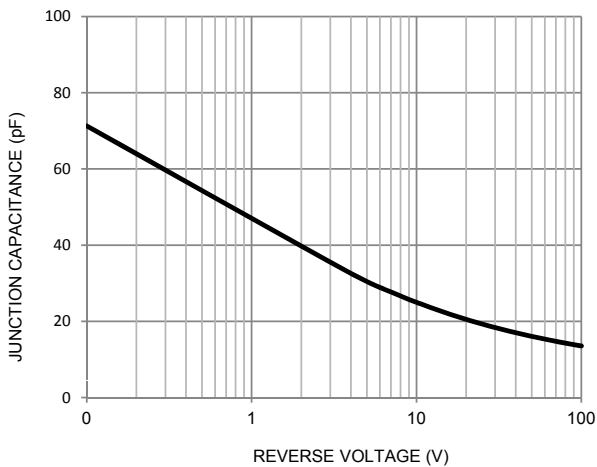
Single phase half wave, 60Hz, resistive of inductive load.

For capacitive load, derate current by 20%

RATING	SYMBOLS	FM201	FM202	FM203	FM204	FM205	FM206	FM207	UNITS
Marking code		2B1	2B2	2B3	2B4	2B5	2B6	2B7	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward rectifier Current 0.375" (9.5mm) Lead length at Fig.1	$I_{F(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ Ta=25°C I_R @ Ta=100°C	5.0 100							μA
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	100							°C/W
	$R_{\theta JC}$	35							
Typical Junction Capacitance(Note 1)	C_J	60							pF
Operating and Storage Temperature Range	T_J, T_{STG}	-55 ~ 150							°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0VDC.
2. Thermal Resistance junction to ambient, junction to case , device mounted on FR-4 substrate, 1"×1" , 2oz, single-sided, PC boards with 0.1"×0.15" copper pad.

RATING AND CHARACTERISTICS CURVES
FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

FIG. 2-TYPICAL FORWARD CHARACTERISTICS

FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

FIG. 5-TYPICAL JUNCTION CAPACITANCE


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Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape & Reel Packing :3000pcs/Reel

Note: 1. Packing code, T: Tape & 13" Reel Packing;

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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